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GARDEN.

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MAR 4 - 1917

67 Recd. Nov. 30th [Milledgeville, Georgia]

Dr. John Torrey Ans. Dec. 12th.

Dr Sir,

Your kind favor came to hand when I was too sick to read it & continued ~~so~~ ill health of myself together with sickness in my family has prevented me from answering you at an early moment.

I will with great pleasure during the winter put up & transmit you a packet composed of such specimens as I think will most interest you. Unfortunately for you I have never paid any attention to the grasses & am therefore incapable of selecting those that would be interesting. I will, however, send you specimens of all on hand. Some may perhaps prove intersting to you. I will here remark that if I had known when to address you would have sent you specimens two years past: but I understood you were in Europe collecting materials for your proposed work.

The Botrichium described by Mr. N. in the Journal of the A. Sci. of Phila I have not seen. May not Dr. Gordon award it the same fate as he has the Nuttallia. Is it not likely it is too near Aconitum to be separated? I make these remarks because I have Dr. Gordon instantly failed to recognize Nuttallia. I would have been grounden to have had Mr. N. let the plant sent you by Dr. Short bear my

name. It is legitimately my discovery & therefore I can claim it as my bantling. I am much indebted to Mr. N.'s friendship than to memory: for when he was last in this County I showed him a specimen & he at once pronounced it new & at the moment did me the honor to dedicate it to me. It has since been notoriously recognized as Bryknia Dis-
persa (the specific name given by me). My friend Dr. May of Augusta has distributed by seeds & roots to his Correspondents in this Country & in Europe several years past under my name. Now what avails those say when another Bryknia is announced? The first Bryknia I think entitled to precedence. The absence of Mr. N. has prevented me from reminding him of his friendly misapplication of my name.

I have a new genus which is not dedicated which I will send you with a accurate description. I ought to have remarked that the B. Dispersa has never been described. Mr. N's specimens given by me are unskinned.

The Scottia Odorata described by Mr. N. in the L. of A. & Natural Science Phila is perhaps the same I had discovered & proposed to name N. Distichia from its three rows of flowers. I perceived no fragrance in mine. Flowers October —

I have a new Lobelia legitimately aquatic grows in water with Pontederia Lanceolata & Villarsia Cordata. all of which you shall have.

I have made no list of plants of our vicinity, nor have I ever attempted to give technical descriptions. I have not studied Botany scientifically, I may be only called an amateur: for I have studied it only as an amusement & not for the purpose of publishing any thing in my name. By giving you minute descriptions I may enable you to describe scientifically - Indeed I am now less prepared in Botany than I was some years past. The only Books I have are Darlington Linneus, The genera Plantarum. Pursh, Elliot, Nuttall, your Compendium of the N.o & Middle States, Barton & Bigelows Flora of Phila & Boston.

Pray let me know what other good books may be had in your city.

I am greatly in arrears to my good friend D.r Short, I failed to send him a package by Lawrence, - He has the zeal to make a Botanist.

Be assured it will afford me great pleasure if I can be the means of furnishing you with any useful materials for your proposed work - The many late discoveries render a new work on the botany of our country almost indispensable

Very respectfully yours

W. Boykin

Nov.r 19. 1835.

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Dr. John Jones

New York

Recd. Oct. 29.

Dr Sir. The covey are mailed to your boxes & they placed at the Stage office in the care of a friend who starts to start to augusta in the morning with them from here. I have directed them to the care of a friend in Savh with instructions to ship them to William Cook & Co. 142 Water Street New York, where I hope they may soon & safely be in your hands. I have a box for Dr Short & hope I may find a direct conveyance to him by means of horse & hog drivers, otherwise I may send it by way of Philadelphia.

You must instantly on the arrival of the boxes open both for the purpose of finding the bat, I forgot which one contains it, you will find it ~~that~~ in a thin box pushed down on one side, when you get it out & see to its preservation go to the other box & commence your labours, you will find most of the rare plants in it. I beg you in every instance wherein I have called your attention to a plant by a mark of interrogation or otherwise to send me the true name or remark in as few words as possible what ~~may be suggested from~~ you think proper. In most cases I have only given the genus, just for the purpose of economising your time, well knowing a few moments of observation would only be necessary to one so well acquainted with the habits of our plants to detect the genus; in other instances I give the species, in others no name because you will instantly know them & in a few instances I had forgotten if I ever knew the plants & did not take time to investigate them. I recollect having inadvertently mislabelled some & others again occasionally forgot to label. In my letter a few days since, I informed you why the plants were put up so disorderly & why you would in a few instances find the same species in each box.

I saw my song that I have no drawing of the one called "Boykinii". I had a pretty good one which I gave Dr. Wray two years since, you will however find two my imperfect attempts at painting it, which may enable a drawer under your inspection to make a tolerable painting of the plant, the berry is made too long for its diameter & the male flower is still more imperfect, the berry if finished would be, the flower an a greenish white & I ought to have said in my description that the male stamens are three & lobed pistil as most of the Cucurbitaceæ.

The plant which I propose to call Bejrichea can also be easily drawn, by making the berry a dark & glossy green, & regularly decreasing, the flower blue & near the top as you see in the specimens & but a single one at the time, they come out one day & the next have withered. The seed vessel with its coverings so singular you will find inclosed in a paper & directed so as to exhibit them all perfectly, the nectary I presume, you will not detect. (Seeing description).

The new Lobelia which I proposed to call L. Paniculata (I think) is upon reflection strictly racemose & nearly universally & apt when mutilated, to throw out forth branches which make it paniculate. I now suggest Stolonifera as a specific name for it, because it is necessary by stolons forming large beds of plants. You will perhaps find some other Lobelias which merit an investigation.

Somewhere you will find two species of Ilex, one with the fruit one I think not described, they grow 10 & 15 feet in height in the River swamps.

I have called your attention to an Andromeda out of flower collected in the up Country, is deciduous & must I am certain be new.

The plant having the appearance of a Polygonum found with the Clowne Cuneifolia, is new to me. The seed are very like P. Fagopyrum.

If you are not careful you may overlook the single specimens of what I take to be Ottrelania Biflora, my other specimens are misplaced & lost.

I regret that a great many of the Syngenesious plants, Didelphians Papilionaceæ, Euphorbiæ & very many of varying families were so much injured that I had to throw them away.

In relation to Pontederia, I can remark that I never saw P. Cordata but in living or moving water as in the edges of the river, & P. Lanceolata always in pond or stagnant water.

The petals of the Silene ovata are not fimbriate, the divisions of the limbs are linear & parallel thus ⟨claw⟩. I have examined it carefully & could not see a single one of the divisions subdivided. The root is sinewy & two feet in length, with scarcely any branches. It puts forth many stalks from the root like Cucubalus. See my memory for putting it with Cucubalus. The Silene Fimbriata is most beautiful, but in drying loses its handsome pink colour.

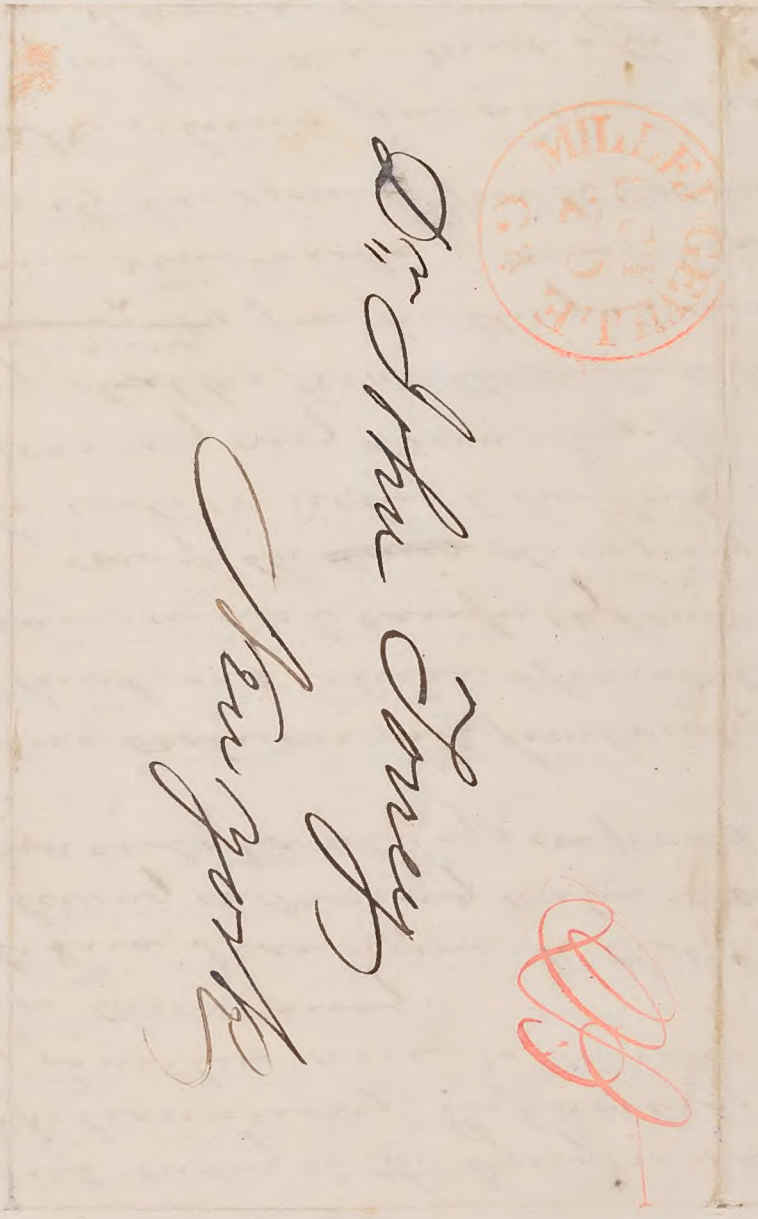
When Mr. Nuttall returns you will likely see him & if you do, remember me most affectionately to him & tell him I would be more than gratified could he spare the time to write me.

I expect to remain the ensuing winter in Columbia on the Chatahoochee River where no doubt, the ensuing spring I shall make some discoveries. Rejoice no doubt in plants in the spring &c.

Please write me as soon as convenient after examining the plants. Very sincerely yours &c W. Boykin

Dr. Torrey
New York

It may be proper to remark that the Baccharis, (I do not recollect the species) is a real straggler, for it belongs to the low Country, but two plants have been found in this vicinity. Milledgeville is in the primitive region, the secondary commences a few miles below, hence the rarity of entering plants in its vicinity.



On the right ear of the bat I counted 8 distinct & long unpunctuate tooth like processes & on the left 9 & an indistinct one. On the flap like process just above the meatus internus. The Ears in drying have become undulate. The mouth was apparently very wide & rounded & by the upper lips projecting over the lower, nostrils distant, nose square, a row of bristles just below the nostrils.

Recd. July 17th Ansd. July 20th

Columbus Geo. June 1837.

Dr. Sir.

Your note with the accompanying present was duly handed me by Mr. Calhoun, for which I beg to convey you my sincere thanks. As I have not given any attention to the study of Nat. Orders your Edition of Lindley would have been more in the track of the elementary matter added by you. The present work requires I presume a previous study of Lindley's "Outlines of the first principles of Botany." a Studied treatise perfect. Without a precise knowledge of the many new technicalities introduced, more especially in consequence of both new & more exact views in relation to Veg. Physiology, I cannot make the study of the Nat. Orders pleasant or profitable.

It is time really to give a new edition of Martin's Language of Botany.

Though I have been all the while in too unfavourable health to Botanize, yet in all my excursions I have kept my eyes on the road side for the "Weeds", looking out for something of interest or something new - I flatter myself I have discovered one new weed of the Asclepiadeæ order, in which you will I think concur, unless a Florida Correspondent has not anticipated me. The plant may possibly be found in that Territory By a friend who goes to N. York in a few days I will send you a small packet of dried plants - being mostly more perfect specimens than those sent you last winter - by opportunities of the like often offer, I shall from time to time remit to you in the same way. The ground here is very similar to that about Milledgeville, both towns have the same Geological position, (U.P.) at the termination of the primitive region. The tertiary formation below Columbus is much more recent than that below Milledgeville say for the distance of from 30 to 50 miles below the primitive region of each place.

TORREY CORRESPONDENCE HERBARIUM COLUMBIA UNIVERSITY.

this town is about 40 miles south of Milledgeville,- a number of plants, tiny & shrubby grow here, that are only to be found 20 miles South of Milledgeville.

No 1st a grass collected 3 miles above this in the shoals 4 to 6 feet high. flowers axillary. Do send me its name. May & June

2. Brayera. with the fruit & fresh specimens of Polyg. Polygamia

3rd. Actinolaria Tubrosa? if not close to it. does exactly agree with Mr. E's description.

4. I do not know. - collected them last Summer & left at a house without an opportunity to examination - 20 miles below this place

5th 6. Ruellia Pedunculosa

7. I take to be Amsonia Salicifolia, found on the banks of the River, growing among the rocks & on Islands in the falls. It seems to differ from A. Angustifolia mostly the absence of in pubescence & the leaves more acuminate. I observed that only the flowering stems put out the branches below the flowers as you see & these branches have grown out since it was in flower.

* an Ruellia Caroliniensis?

8. Podostemum ceratophyllum. In great abundance on the rocks in this river. It is to be found in a natural & perfect state when always submersed & played upon by a strong Current. In this circumstance it grows to the length of 10 - 20 & sometimes even 30 feet long - In this state of the deepest green imaginable. I send you a number of specimens, showing it in flower, in fruit, in a healthy & natural & in a stunted State. The little tufts so short & so crowded were scraped from the rocks left naked. In the natural specimens you find the stems

TORREY COL
HERB
COLUMBIA

scattering & you see its mode of growth - The speci=
mens from which Michaux & Elliott made their des=
cription, were no doubt from those I call stunted
& they have therefore both committed an error.
The pedicel ~~stalk~~ of all the flowers constantly sub=
merged is conspicuously forked & on each of these
forks or pedicells the anthers are attached & they.*
The pedicels of the ~~stalked~~ flowers of the stunted plants
have scarcely any fork as you will see by referring to
the specimens - Inclosed you will find two other
small plants scraped from a dry rock, showing
its growth as well as the strong points of adhesion to the
rock, each joint will throw off a runner & hence it
is easy how dense the mat is when from the want of
water constantly flowing over it, it acquires no length
but makes up the deficiency in depth of fruit.
What is the reason that this "Mat" as the people call
it has all disappeared on the River East. The folly
& the Sawk Coosa, Ochmulgee & Flint Rivers formally
abounded with it. Now in the two former you can
scarcely find a trace of it & it is almost entirely gone
from the two latter. It is impossible that our Cattle
& hogs can extirpate it: for they can only make a
partial destruction, there being thousands of
places in the rapids of the Rivers inaccessable
to them. I incline to the belief that the turbid=
ness of our waters is incompatible with its exis=
tence. After our lands are cleared, & our streams
become muddy & no doubt the deposition of the sedi=
ment from the waters upon the Podostemum after
a few years nearly extirpates it. In this neighbour=
hood are dams for fish traps, among the shoals & the
water rendered somewhat stationary that also the
mass has a sickly yellow appearance.
There are myriads of worms on the leaves, a few of which
you will see on the dried plants - The most rapid cur=
rents do not detach them & they become an inch long;

* The anthers are sessile on the pedicels which seem to be terminated by the stigma. Query the Pedicels. Rush & Juncaceæ.

CORRESPONDENCE
BOTANICUM
GEORGIA UNIVERSITY.

This is the "Mesa" that cattle, deer, hogs & ei former
bring the Bijou, stock with is much aridity. In the
Summer, cattle, deer & hogs go into the shady &
feed upon it - Indians & frontier hunters used to
secrete themselves by the shady to shoot the deer
when they came to feed on the mesa in the Rain.
Our fare on our trip to Utahe-Cowna, many
deer track, the deer had but one place at a
certain stand to get to the Creek to feed & when
the Indian found him, he was safe as in a
trap, he was sure of it, & knew the stand.
One fact in relation to Ruminating I have
done with this long note. a gentleman of
congenial tenacity who owned in
Flint River, after remarking how exactly
sand cattle ate of the mesa, said that
cattle in feeding on the mesa, take in with
& swallow entangled in the mesa
with it a great many small pebbly, & that
during the night, while reckoning the previous
days ingesta, they along with it regurgitate
the pebbly & in this second mastication take
care to drop the pebbly out of their mouths.
He had often seen a large handful of
pebbly thus spit out by a single Cow in the
course of one night - Thus this mesa gives
us an additional cause for contemplating
the wisdom of deity in constituting the
order of Ruminantia - This would have
been a useful fact to the Compilers of
the Bridgewater Treatise -

9th Salsola. Polyg. Dicotyledons & Thesium

10. Solanum Nigrum (Nutt, abundant here).

11 - Asclepiadeæ. Certainly not described
in any authority to which I can refer. Pity
you spent the Cowpea prepared by Mr

Nuttall & Elliot, in dividing the asclepiadeæ into several genera, you must also consent to make a place for this. It is quite as unlike asclepias as asclepias is Poke. Sigma.

HERBARIUM COLUMBIA UNIVERSITY

Perennial, root large & the colour & tenacity of that of A. Tuberosa - & the taste rather insipid, branches from the root many - decumbent - 12 to 18 inches long, stem large & purple hairy above, smooth below, angular above produced by the decurrent petioles - Leaves as you return, observe their presence & relientation - both upper & lower leaves uniformly mucronate tapering, those of the middle obligue at the end, midrib above purple, edges scabrous, in the axils as in other asclepiadeæ a row of tooth like glands, at the base of the leaf on the upper side & the middle uniformly a cluster of these denticulated glands, hairy horizontal & decussating as though opposite.

* Flowers mostly terminal, leafy, umbels simple & compound umbels many flowered, flowers erect & mature partially, in all stages on the same umbel - Calyx slightly tipped with purple, Corolla erect, campanulate, perhaps more strictly urceolate, deeply divided, both sides greenish, edges membranous & ciliate, segments ovate, much larger than any of the kindred species

Nectary, a stellate expanded crown, the horns of the crown clavate, falcate, of a deep purple - near the end 3 large whitish spots, uniting at their base, at the union of these spots a minute or abortive horn, seen only at its point & appressed, the horn not coming from the centre, but being a part of the integument of the cornicle, the base & end of the leaf inflated. The stellular crown in expanding inflates the Corolla considerably before its expansion. The stellated crown with its variegated spots give the flower a beautiful appearance - Corpuscle large, its angles a slightly hairy much bellied & large. a young follicle examined shows that the seeds will be Comose & situated as in asclepias - The above remarks with the specimens & a few flowers dried so as to show the conformation will enable you to describe the plant accurately.

12. Helonias Quadridentatum (of Mich)? March

13. Phlox. — Ericaulon ? ?

14. Bryonia Dioica - Rare in the up country

15. a variety Longifolia of M. Elliot - a. Longifolia (Mich.) badly described by Pursh - they are the first specimens I have seen ?

16. Sarracenia Variolaris - abundant here.

Dr Short writes me you determine my Cucurbitacea to be a Bryonia. But for the arrangement of the seed & their number uniformly 3. I should have thought it a Bryonia.

I beg you to send by the first opportunity to our Zealous friend Dr Short - a specimen of Nr. 1. 3. 6. 7. 8. 9. (that is a Schwalbea & Polyg. Viridescens) & the Platanus unless you desire it.) 10. 11 (2 specimens). 12. 15. & 16. (the flower & fruit) this specimen is a rarity to you - the Dr is anxious for all our Sarracenias.

If Mr Nuttall is in Phila I wish thank you to request him, with my remembrance, a specimen of Nr. 11.

When my dear Sir, will you favor us with your proposed Botany of N. America. I have endeavored your materials in as perfect a way full as you could make them from all sources both in this Country & Europe. Mr Nuttall, late trip will furnish much matter - It is really time that the many hints discovering in Botany be embodied in a single work - I understand you have a great Genus for the Sexual system. But should you publish a work on botany, I deem it best for Types in this Country that you use the Linnean Classification. Have an addenda in which you may say as much as you please about Nat. Ordrs.

I should, if the person who attends to my buying fish below on the River, had known how to preserve them, have sent by this conveyance other specimens of the yellow rat, & highly, certainly a pigmy of an animal not described nay for as I know whose existence has not been known by any inhabitants of this region. My man being instructed to watch for any thing curious had before mentioned it, but I was fearful of estimating its existence in my priming letter for fear it might be a young Sorex. A sight of one of these little animals dawn in a putrid state convinced me it was altogether different from any animal I had ever seen described. It is little longer than a half grown domestic mouse, with the fur of a Sorex & with a long conical head terminating in a moveable snout, tail about 2 inches long, the shape of its mouth like an acute isoceles triangle, the under incisors seemed to make barely an angle with the jaw, projecting almost straight forward, eye very small. I regret I did not examine it more carefully, but I was quite sick & fatigued, & the smell of the animal (attempted to be preserved in a Solution of nitre) was so offensive I could not remain by them when turned out of the solution. The animal is exceedingly feeble, putting it in the waistcoat pocket killed it. They seem to be gregarious, one man fully myself has opened about 20 at one last spring in tearing up a rotten stump. I shall procure later some more of these rarities, having at hand now fifty wine for their preservation. Let me hear something about my new acquaintance, I shall be so disappointed if it be not one to you a new "weed". Very sincerely yours

Samuel Boykin

Dr. John Torrey

New York

Rec'd Aug. 26th and Aug. 28th

Dr Sir.

TORREY CORRESPONDENCE
HERBARIUM
COLUMBIA UNIVERSITY

It has been a long time since an interchange of Communications. you should have heard from me had I any thing to communicate. For two years it is true, I have paid but little attention to plants, but whenever in the woods I have always been on the watch & have only found the enclosed Arabis. I obtained it last Spring on the Chat. River about 20 miles below this place. I regretted that sickness of my family prevented me the past Spring from making an excursion to an interesting region west & So. west of this. Should I live until next Spring I will endeavour to make the excursion.

Pray how are you progressing in your botanical work? have you had that town of the N.Os in this state, but have seen none.
If you have enough completed to make one Vol or even two pages have them bound & sent to the Counting house of Leroy M. Wiley & Co: when the boxes of this Mr Wiley will find it. I shall instruct him to pay & if he neither you or your agt to have the money with Mr. Wiley.
Please let me hear from you by mail. It is always a pleasure to hear from you.
A professor of botany in our Methodist female College at Macon Geo has published a manual of the S. Southern plants, -

I regret that he has omitted many many well known plants & scarcely any of the plants discovered by many [illegible] since the death of Mr. Elliott.

My dear Sir very truly yours

August 16. 1841 J. W. Bigelow

To Dr. John B. Torrey

New York

TORREY COLLECTION
HERBARIUM
UNIVERSITY

HARVARD UNIVERSITY
BOTANICAL CORRESPONDENCE
LIBRARY

Mr Fr.

I have just had the pleasure of receiving your letter of the 15th inst. & am much pleased that you have obtained at length some of the seeds, & write with the hope of being able to send you some in return.

I duly had before you a packet to me through a friend about the plants to which you refer. All that I can now say is that they collected in the vicinity of Milledgeville before the years 1823 & 24. And that no doubt the Indian should call them specific of Physicum & Lewisii is clearly allied to it. Thy Mr Eaton I know specimens will forward also to Mr Elliott who will be glad to receive them & be found of giving me a share. I have had the opportunity of having a few of my skeletons & shall be glad to have any thing I collected.

Thy letter will be duly attended to, that my packet may be long a few days. I received some of their entire plants which I said them among my specimens.

My address is Skidaway Bryton Plantation Ga.

I regret much to be unable to furnish you with a few, as I thought nothing of them as a means of introducing me to some of the northern Botanists.

I called on Mr Calloway & gave him the particulars.
This is the manner by which he got the plant & really
all I remember: for I do not recollect but one plant
in the lot
given to Mr Calloway.

I send you a few plants & regret that the
two most exciting to me are imperfect Speci=
mens. when in Cherokee County in 1845. I collected
Specimens of the Liatris which I think is
new. By accident the packet containing specimens of the
flowering ones lost. This the first season
I ever knew this flowery but fields. I wonder
that you did not discover it as it grows
near the roads & in such low travelled.
Hope I sent enough of it to enable you to decide
definitely it is described or not.

2 Parnassia - 3 Rockyhoods. Mr
Darby has requested me to send him several
plants among which I think Nos 2 & 3 are
new kinds.

No. 4. I judge to be a native of Cherokee

No. 5. is a perfect stranger grows 12 & 14
inches high. I keep the seeds
carefully under cover & shall
them in a separate packet.

I wish you can learn how to manage Lilium
& grow in flower. Many are in bloom
I have not the heart of to cut. My white
are flower. you will remember that I have
plenty & shall be happy to send them if you wish.
I do hope you will let nothing hinder you

from finishing the N. American Botany
& others are impatient for it's Conclusion.
You have never said any thing about the
Hepaticæ I found in the Ark Country
I may not satisfied that it may be enriched
Mr Elliott is now off. I did not like to
join it a patient investigation.
I found also by chance the habitat
of the Hibiscus Pentaphyllus. I found a
abundance just below the Gen. Hd. Road
B. Ridge over the Fork Mountain &c.
are. Had the promise of seeds & plants
but they have not been sent me
My long ill health has prevented me
from doing any thing of late for you.
Have not as yet 3 grs of Veratria a day
& healthy fulness.
I beg you to communicate to Mr Darby
my recollection of you — "Darby".
So let me hear from you
ably.
Columbus Feb
May 25, 1843

P.S. The packet sent you to start
from here to-morrow & am di-
-rected to the Care of Wiley & Putnam

JOHN TORREY CORRESPONDENCE
HERBARIUM
COLUMBIA UNIVERSITY

Dr. Peter Dorsey

Princeton

New Jersey

Dr Liz

June 27. 1847.

A few wks since I wrote you a hasty letter & sent by a friend a few specimens, & those the most important were mutilated. I hope you have rec'd. the two packages to be left with W. & Putnam. I am desirous to know if you can recognise the provable genus. I have a few young seedling plants growing & two from the roots sent to me & transplanted. I fear I shall get no flowers from either. I only eat the leaves almost as fast as they come out. The Alsine I have flowers in march.

When you write me last you were engaged on the cyclopiadea. In looking for A. Canina by your request with a view to send you the seed I have in the pine woods Shag[illegible] branches found a splendid Asclepias which I have not before seen. If it is not Lanuginosa it is a new species & if Nuttall is correct in saying the A. lanuginosa is smooth on both sides of the leaf, then this is not the L. for the under side of the leaf is tomentose.

Boy plant is 4 to 6 feet high. I own a thirty plant down. The leaves are 9 inches long. I forbear a description of Laundrying down plants which shall be sent to you as soon as they are ready to pack up.

I am also in the same situation discovered a new species (to me) of Sabbatia. It is not described by Elliott. It is 3 to 4 feet high. It is not in full flower, but I am drying a specimen for you.

I am also perhaps found a new species of Houstonia - all of which shall in a few days be sent to N. York, with some other plants for the purpose of illustrating their families.

You perhaps do not know that I am for the benefit of Miss Mrs Bishatte Emmons Emily from Columbus on the West side of the river. It is here where I collected the above plants. I am too fatigued to do much in the way of botanizing.

I hope you will not be obliged to send your asclepiades to the printer before you receive my next packet.

yours &c

J. Boy Ram

P.S. Since your last letter to me Theodore Bishop Elliott the son of my old friend the Botanist. He told me you never had by father's herbarium in prospection and had supposed, that party only had been forwarded to you. I have no doubt the Santalaceæ you have dedicated to me lately is in the herbarium. I have specimens sent to him by me & Red.. as I always sent him the best, perhaps both male & female specimens may be in the herbarium. I hope you will through Dr Buckman or directly to Miss Elliott cause a search to be made.

FAMILY CORRESPONDENCE
PRESERVATION
AND PUBLICITY.

Chas D 1869. 4 E.

Lyn John Yorcy

Princeton

New Jersey.

To John Jones

New York

Dr Hooker.

Yours ~~of~~ ~~[illegible]~~ written partly the 140 to hand duly & I assure you no-thing would afford me more pleasure than to have you with me here collecting new plants. a week or two in this locality. I promise that if ever I again go to the north Pole I will make a point to hunt you up before you when you may. I would [illegible] more pleasure to spend a few days with you & Dr Gray than with any other living beings.

You no doubt judge correctly of the hybrid berberis. They are all collected within a small ~~[illegible]~~ space growing intermixed. [not?]

I enclose you a position to multiply, the great fault of Michaux Torrey & Nuttall's State Catalogue just at your door when I collected the Silphium No 1. & show you a part of the specimens with thousands upon thousands of plants in what might be called a pond for 6 months in the year, any plant having several radical leaves like these sent you, you would I think say it must be different from any species found in Middle or lower Georgia. The Silphiums grow generally in poor sandy hilly or very dry situations. The few straggling plants on the heights in front of my house collected the specimens I enclosed I intend to hunt for [illegible] & Red hammock. Some were in open pine land & the upper thin stems, but all fully developed & crowded as you see. I gathered but 4 leaves which I enclosed & the variety could be seen & when I was putting up the last packet from your I observed it was different but two.

U. S. NATIONAL HERBARIUM COLUMBIAN UNIVERSITY

The trees are erect & have a coriaceous appearance & may possibly be biennial. Should the season be good I expect flowering plants certain if the Rad. trees are given through the winter). It grows in Cape County S.A. near where the Coorawatha River breaks through the Mountains.

The Metilatus was found close to the Barbeys. I pledged it to be brought the specimen from it on the great highway through the Forest. nation & by a celebrated spring called "Rocky Spring" where waggons stopped for the night. going & coming.

I have never seen Aristotelia Dipterocarpa flower hence I know nothing about its fruit. But since I have seen the latter now, it appears to me you do violence to Natural order to place it with Serpentaria. I have cultivated the Serpentaria & they readily have shooting now out from the first packet I sent you again No 3. In the second packet I sent you had cultivated specimens - In this the seeds are of the shape & form of grape seeds, save the flattening at the point of the grape seeds. I have several seedling plants & several sprouts from an old Root which will grow no flowers in March if not killed by frost - If you want any plants you may freely decide by clipping to be supplied. Its Root is any unlike that of Liatris it can be. See Neatby Dyeing Book I forget to mention in that the Cochineal Dye now Cultivated at Cape Town is any other species.

HARVARD UNIVERSITY HERBARIUM CAMBRIDGE, MASS.

No. 1. = ~~It~~ thy a eliptica Lanceolata. Grows in Sphagnous bogs. Perennial, 4 to 6 feet high, ~~in~~ bears plants the leaves alternate lanceolate. you have specimens of the largest & widest plants. In No 1. you have only leaf on the stock. I remark, that there are generally 6 pairs of opposite leaves on the stocks. say from the first flower down. Flowers in June & July. - I send along, the bud vessel & roots, say parts of roots: for I do not know to what depth the penetrate in the mud. Thy appear tuberous. You have on young root entire - with all the parts of the plant before you, you can determine whether it is described or not.

No. 2. Is thy you have, I trust, a new species of Sabbatia, it grows in the same locality of No 1. Perennial 3 to 4 feet & sometimes 5 feet high, the whole plant glaucous, stem round & hollow, the leaves ovate, lanceolate & subconnate: the flowers in corymbs & dense white, one of the showy & most beautiful herbaceous plants in our wide flowery fens here to August.

S. macrophylla Hook Compendium Ed. 1st. Ed. 2nd. 9--

5

I suggest to name it (if new) D. glauca.

N. B. In this you have an undescribed variety to D. chia. It is certainly different from D. serpentaria. I sent you cultivated specimens in 1836. You now have them from nature. Its range I know is from Alton Ga to this place. - It is subject to a peculiar caterpillar that never attacks D. serpentaria or any other plant.

4. Dentaria Longifolia

5. Houstonia? The flowers like H. Rotundifolia. Pillars & hyp. Californica. Perennial, growing in poor dry soils. Juin to August

6. Is this Phlox glaberrima of Ell. ote? At a distance one would suppose it P. maculata, but it is not when examined, the leaves near the stem ciliate & in a plant of natural growth the flowers are connected by a membrane, - not so however in this specimen - a character

lining of hairs at right angles with the leaves above. Grows in the pine woods - flowers June to August

Stipitate ~~may be more tolerant~~ and very abundant.

No 7. This Phlox is what I always thought to be aristata. P. Pilosa flowers in March & April. Mr Nuttall is wrong in supposing P. Aristata a variety of P. Pilosa. The latter branches from the root & not the stem. By the by when at Athens I was very glad since Dr Ward Prof. of Botany there pointed out to me a Phlox which he called P. Pilosa. I determined that ours to be a different species. He may not then described & I called Mr Beyrich's attention to it who may then in Athens & satisfied him that it was not the plant known as the true Pilosa. I begged Dr Ward to send Specimens to the north

No 8. Rise sends Aspect of Asclepias Americanis.

" 9. Seed Aspect of L. Ovatifolia. It not unfrequently has 3 verticillate leaves at the joints as you see.

No 10. Rudbeckia Purpurea & Fastida Pubescens. I found the former in an acid detonation & knew it would dye prettily. It may be acceptable to a foreign Correspondent. Mr Nuttall I think removes this from the Genus R.

" 11. Phlox from the rich bottoms of the Chattahoochee River, rather apogeal, the leaves a deep shining green. It may be visible from June to August.

* The Pursh Herbary.

12. An Eriocaulon which I have not seen about milledgeville. the scape of your specimen is weak & erect, it is prostrate (August)

13. Linum virginianum for the purpose of comparing with a subsequent specimen or variety. ? Compare with No. 18.

14. a grass collected for you last year, Panicum but seems misplaced, since its habit contradicts Granularia this — in mid-summer collected.

~~15. This is what I take to be applying the name of Baldwin's Eriocaulon to the plant~~

15. A variety? of Elliot? I sent you specimens in 1836, but not so perfect. In some plants the leaves are spatulate, & oblong. — July.

16 a Compositae close to Brickellia Eupatorioides. May not grow about milledgeville. The plant set to but in round hard sun — by the long tinged white stile & purple colour of the florets of the disk. Radical leaves not seen. July & August.

17. This Eleianthus seems to connect the Actinomeris with Helianthus. In the A. the rays long & pendulous, the seed winged & the two teeth always present but scarcely attached to the wings. The rays in earlier flowers are the longer than those of the succeeding. Dont grow. June to August

Actinomeris (Apteron) radicalis

the hairy generally but not universally opposite, several stems from the same root the hairy often much narrower than in the S. canadensis - Common in poor dry soils. The hairy have the habit of Rudbeckia. Helianthus by tuberous? & Elliott?

18. In the same bog in which I found the ageliphas & Gabbatus No 1 & 2. I found this species. It seems to be perennial & much larger in the stem than L. V. P much more panicled. The flowers are 1/4 to 1/3 less than L. Virginianum & the capsules, more distinctly 10 ribbed. Is it a variety of L. V. I send you plants with the roots, mark No. 18. These plants which have not been trodden down or nipped by cattle grow more than 3 feet high & much branched. The habit of L. V. to grow in dry sandy rich - poor, but more abundant in poor soils in this County.

19. The fruit of Anemone Virginiana & A. Canadensis & Baldwin. you have mentioned had good flowers specimens from me. This perfectly agrees from the 3rd or 4th week of flowering, - Cut a branch off the stem & leave many with fruit with flowers. They like the plant two above it are so much like it only stouter, but in dry natural soil, rich, black, stiff soil.

But in light sandy soil as in my garden in Columbus they will flourish but for a few years. The tubers are very large & numerous & traveling of life. They will remain a year in the ground when badly injured before sprouting.

It may be well to observe that the Petals do not form fully connivent, when the flower is fully expanded, it is exactly of the shape of a bowl, but pluck it on stem & in a few minutes they close & you have in the dry specimen.

Can this be the same species found by Dr. McClevin at St Marys Ga? He says it grows in the pine woods. Now this will not live long in the pine-woods here.

The leaves grow very much after it is out of flower they become generally 1/3 larger. they is two & three fourths specimens. I observed it distinctly on No. 1. of the sketch. — The leaves on the second & third crops of stems are always smaller than those of the first. Its regular time of flowering is may & June. The older the root the more flower stems it puts up. The root from a budding flower it has but one stem, but in a few years it will produce a dozen. I have tubers enough also collected to fill a peck measure

No 20. — Hypericum Dissipleus

" 21 — Leiduica. collected in midsummer

" 22. Calliyonia Amigata. (Sept 11)

23. Grafs. collected early in Octo.

24. Lobelia Glandulosa. (Fall)

25. Lobelia - of the Specie ~~of which~~ I am not certain. ~~It with~~ the above are the two latest flowering species we have they flower from the last of Summer to frost. The former grows exclusively in wet situations & may be said truly to be aquatic. The latter grows on the low dry of branches the soil is moist. It lay also two ~~or~~ stands near the base of the peduncle, the glands rather longer & more acute than the former. They plants which grow in rather dry situations ~~have~~ must be the Dr. Nuttall's & perhaps "pauper Speci= "men"! I send Specimens of both grown & half grown plants. Some attention to one of the plants with its evergreen radical leaves. Is this L. Puberula ? [Radical leaves]

26. Eryngium Ovalifolium.

27. I don't know - hay 10 Stamina & very other flowers seem a Portion - with ~~Four~~ petals without & the Petals joined in a dry situation. Collected in the bog.

28. Centaurella pannonica (Summer)
29. Triptilella capitata. Sept. ~~Oct~~
to November).

Should I have forwarded this packet
sooner but for waiting for its fruit.
In the meantime I have made a few
additions to the packet, but
do not know whether they are of any
particular interest. The grass No. 23
I never saw before. It is figured when
collected, has much more scarious than
you now see. I have given the
reference any study to of course known but
few of them. ... I could have which four or
more plants would have been desirable
& might have added many more to the
packet
I send the Cryptogram and solution, because
I have found it difficult to obtain pure
& not specimens that is, on the radical
sense — Having sent you generally good
specimens, I deemed it ~~best~~ more pro-
per I confine my remarks to their
habits — I am in the country & have time daily
too crowded to study out the plants met
with. I could not bring the few
specimens I have so to speak home.

ENTOMOLOGICAL CORRESPONDENCE
HERBARIUM
CALIFORNIA UNIVERSITY

If however the Agelaius does not turn out to be a new species, I feel confident that the Scolecophagus will be found a good species for some of the Icteridæ. I send you mature birds for your Comparisons. I send you 6 heads, & Feathers a piece.

I send you also a Paper of seeds of Bellis Perennis. which grows on the cliff rich flats of the Chattahoochee from Columbus 20 Miles below, whether further South I cannot say. It certainly has a remarkable range from the Rocky Mountains to nearly 32° North.

I beg you not to forget my old Companion Mr. Drummond of Texas. Send him what you can

I have a protegee in Botany in Texas at Saint Antonio. I begged him when he left to Correspond with you. His name is Kelly (M.D.). I am glad to hear that you are well. Write me when you get to hand the 4th Number of the 2nd Unpublished.

P.S. Should letters arrive by Express they
are to be sent to me at Boston.
I have decided upon the following
Books for Notices & Reviews &
therefore think it unnecessary
to subscribe.

Yours &c

W. Cullen Bryant

Messrs Appleton & Co.
346 & 348 Broadway
New York

AMERICAN CORRESPONDENCE
OF WILLIAM CULLEN BRYANT
COLUMBIA UNIVERSITY

Dr Sir.

Near Columbus Geo
11 Nov 1847

TORREY CORRESPONDENCE
HERBARIUM
COLUMBIA UNIVERSITY.

Ihave had my packet ready for
you three weeks, but could not find a
conveyance for it. A friend leaves in 2 or
3 days who promises to take charge of it.
I had to wait thus long to procure speci-
mens of the fruit of the Asclepias about which
I had written to you. The immature follic-
les were gotten in Sept. I thought then
I would wait for one to ripen & send
them I collected about the 10th of Octob. some
had however previously ripened & burst
& the seed scattered & some not then ripe.
I forgot to mention in my memorandum
that the old follicle ~~is~~ are persistent
than in any Southern species. I saw last May
old stems with the follicles. The capsules
only fall when the follicle bursts, the seeds
are scattered immediately as in other spe-
cies — I make these remarks because I
know, if you decide it to be Lanuginosa
you will be anxious to know
its habits. — Let me remark that hay bien
one of the most remarkably wet springs
& summers ever known in this country.
From the last of April to the 10th of Sept.
rains are incessant. Many plants are
in flower longer than I ever observed
before & even longer in maturing their fruits.

I had no idea of writing you this letter
as I thought I had written quite enough to
tire you & had enclosed with with the
plants. But walking out this afternoon
I observed the grapes (I think No 23) & collected
some seeds & knowing your anxiety always
to possess them in case the plant is rare
or new - I thought I would enclose you
some. The long persistent & regularly divergent style
struck me as curious. Let me repeat again
I know nothing about the grapes.
It is already putting forth shoots from the old
roots for the next year's growth

May not the Caterpillar a worm sometimes
be a guide to us in determining of species?
if not of genera. The Cordata woolly leaved
as is to China I sent you the winter of 1836
37 was the produce of a root I collected
in the up Country & brought home & trans=
planted in my garden. The spring after
when the stems & leaves were about grown
the leaves were attacked by a large yellow
caterpillar & leaves pretty well eaten up before
I noticed the ravages of the worm. They were
different from any I had ever seen. Nor have
I since the same worm until I collected the
one or two specimens now sent you. I found
a young one on one of the plants the leaves
of which you will find partly eaten.
There were but 2 plants within a few feet of
each other & they small & thin looking as

Rare for other, yet one of them is dated ~~Specia~~
plants may found by the moth a fly on which
to deposit its eggs - The first year I destroyed
any Caterpillar on the plants in my garden.
The second year they came again & I des=
troyed them until I had secured specimens.
I then let them alone & after eating all the
hairy they attacked the seed vessels & eat
them - Now I know this Caterpillar never
attacks A. Syriaca
Again the asclepiadea which I take to be the
Incarnatas of Nuttall & A. Comuni of
W. when transplanted in my garden was
attacked by a peculiar Caterpillar with
transverse stripes they attacked the plant
every year until it died. I tried to exter=
minate them by searching for & destroying
every worm as fast as they showed on the hairy
Still the succeeding year they came as abun=
dantly as ever. Now this worm I have never
seen on any other of the asclepias family.
What is strange to me, this plant growing in
its natural situations is rarely molested by
this or any other insect.
I cultivate the officinal Senna for family
use. It is liable to be attacked by a peculiar
Caterpillar about the size of the Cabbage worm
as we call it here but very different from the
Cabbage worm. This Caterpillar never attacks
any other species of Cassia
The worm that we call "bole worm" which last
year & the present has done incalculable
destruction to the young ~~plants~~ grown balls of Cotton
does not touch the hairy, it have them for
what is called the army worm when it chooses
to come.

Now it is a well known fact that many prey upon their appropriate food & will not generally eat plants promiscuously. Now if a worm will prey exclusively on one plant & not touch its near relation, is it not a strong reason for pronouncing this a distinct plant & thus may they not aid very in determining doubtful species?

I give you one more circumstance. Last August year I saw a patch of Potatoes (Convolvulus Batatas) destroyed by a caterpillar more before sun ~~about~~ It destroyed the entire leaf, leaving the stem & midrib. It was a large black worm the size of a mans finger & 3 or 4 inches long. They burrowed in the ground & in digging the potatoes (which by the by did not produce one fifth of a crop in consequence of the destruction of this) thousands of them were dug up, in their chrysalis state. A potato patch close by the present year was not affected by them. I fear I tire you with remarks about worms, if so I will not allude to them again. I am sorry to take you the trouble to read my truly bum quite sick

Very Sincerely Yours

P. W. Bryan

TORREY CORRESPONDENCE
HERBARIUM
COLUMBIA UNIVERSITY.